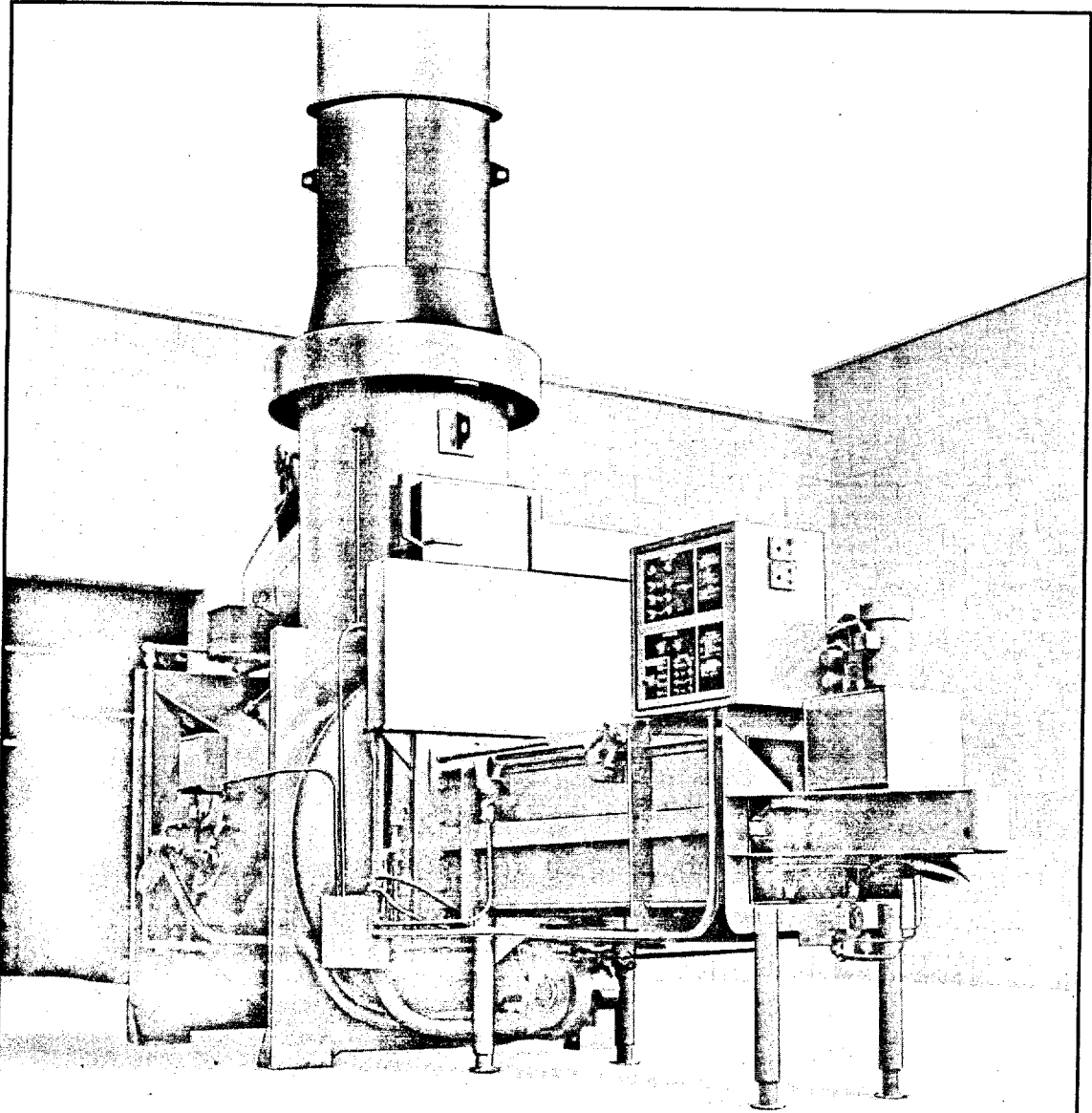


CONSUMAT[®]

HIGH EFFICIENCY COMBUSTION UNITS



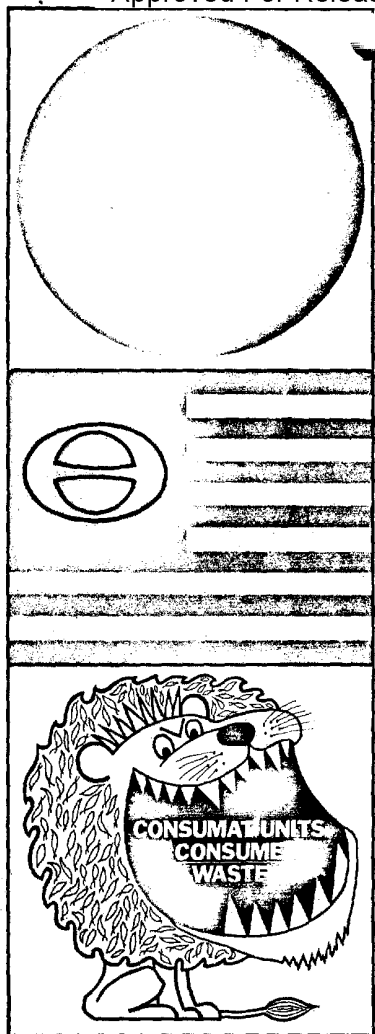
*Complete
Incineration Systems*

WASTE COMBUSTION CORPORATION

Richmond Virginia

A CLEAN ENVIRONMENT

CONSUMAT®



CONSUMAT®

- systems to help you plan for present and future waste control
- units are manufactured under precision quality control
- factory assembled and delivered to your plant
- experienced engineers supervise installation
- warranties are backed by superior service

Ecology is today's battle cry. Federal, state and local governments are busy with pollution control legislation. Most significant was passage of the Federal Environmental Protection Act.

In administering this act, the Environmental Protection Agency has established extremely high standards of incinerator performance and pollutant emissions allowance. **CONSUMAT® UNITS MEET AND EXCEED THE TOUGHEST AIR POLLUTION CONTROL REQUIREMENTS.**

The green earth circle in the upper left has been adopted as the CONSUMAT® symbol of concerned action on air pollution; our dedication to developing and marketing equipment for the improvement of this country's quality of life.

The symbol below it is the ecology flag developed by the staff of Look magazine. It has become representative of the ecological movement.

Today's most massive pollution problem is the overwhelming — and growing — volume of solid waste. Manufacturers, institutions, hospitals and restaurants are buried in it. . . creating highly inefficient work environments, fire and health hazards, pilferage losses and grumbles from employees, customers, neighbors and pollution control people. Outdated methods that store waste take up expensive space and the costs of hauling it away keep soaring. Further pollution occurs from the dumping of liquid waste in our rivers and streams.

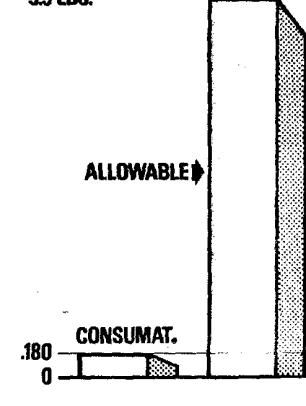
A CONSUMAT® HIGH EFFICIENCY COMBUSTION UNIT CONSUMES WASTE. . . as fast as you make waste. When properly sized for the job, a CONSUMAT® unit offers the cleanest, most economical, most efficient waste disposal system on the market. It will reduce plastics, garbage, pathological — any combustible waste — to a fine ash. An efficient, patented afterburner **ELIMINATES SMOKE, ODORS AND FLY ASH.**

A CONSUMAT® unit saves big waste disposal dollars. Saves man hours and costly floor space. Eliminates hauling costs, pilferage losses, fire and health hazards. Requires minimum maintenance.

CONSUMAT® engineers were pioneers in the field of waste disposal. They have gained experience that can be highly valuable to you. Call on them to help you solve your waste disposal headaches!

ENVIRONMENTAL PROTECTION AGENCY CERTIFICATION

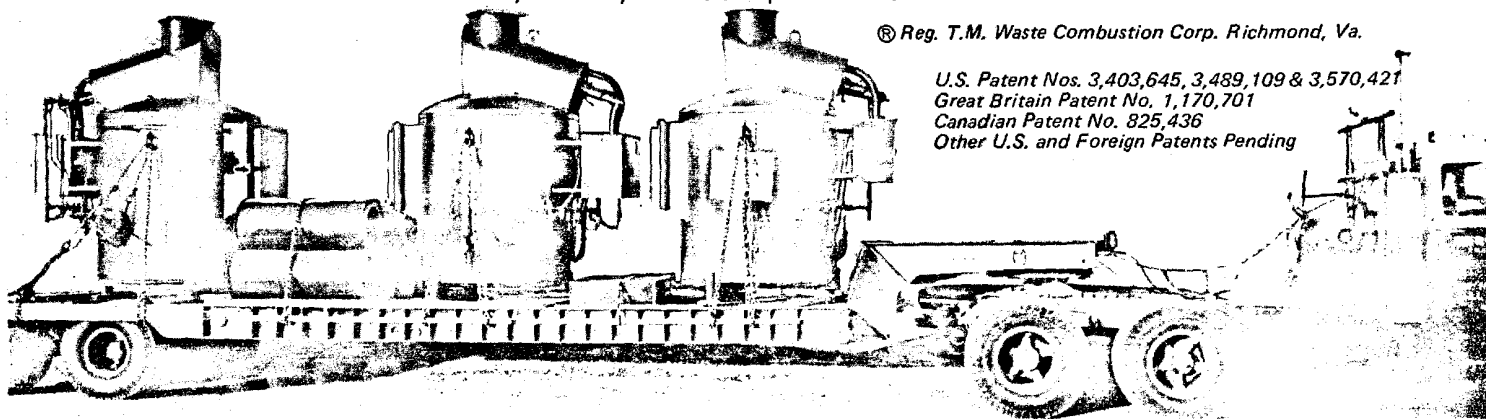
WEIGHT OF POLLUTANTS PER 1250 LBS. OF WASTE 3.5 LBS.



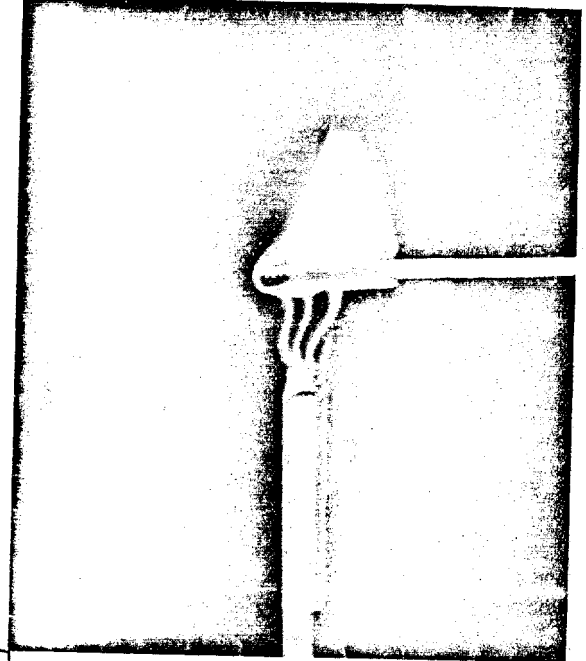
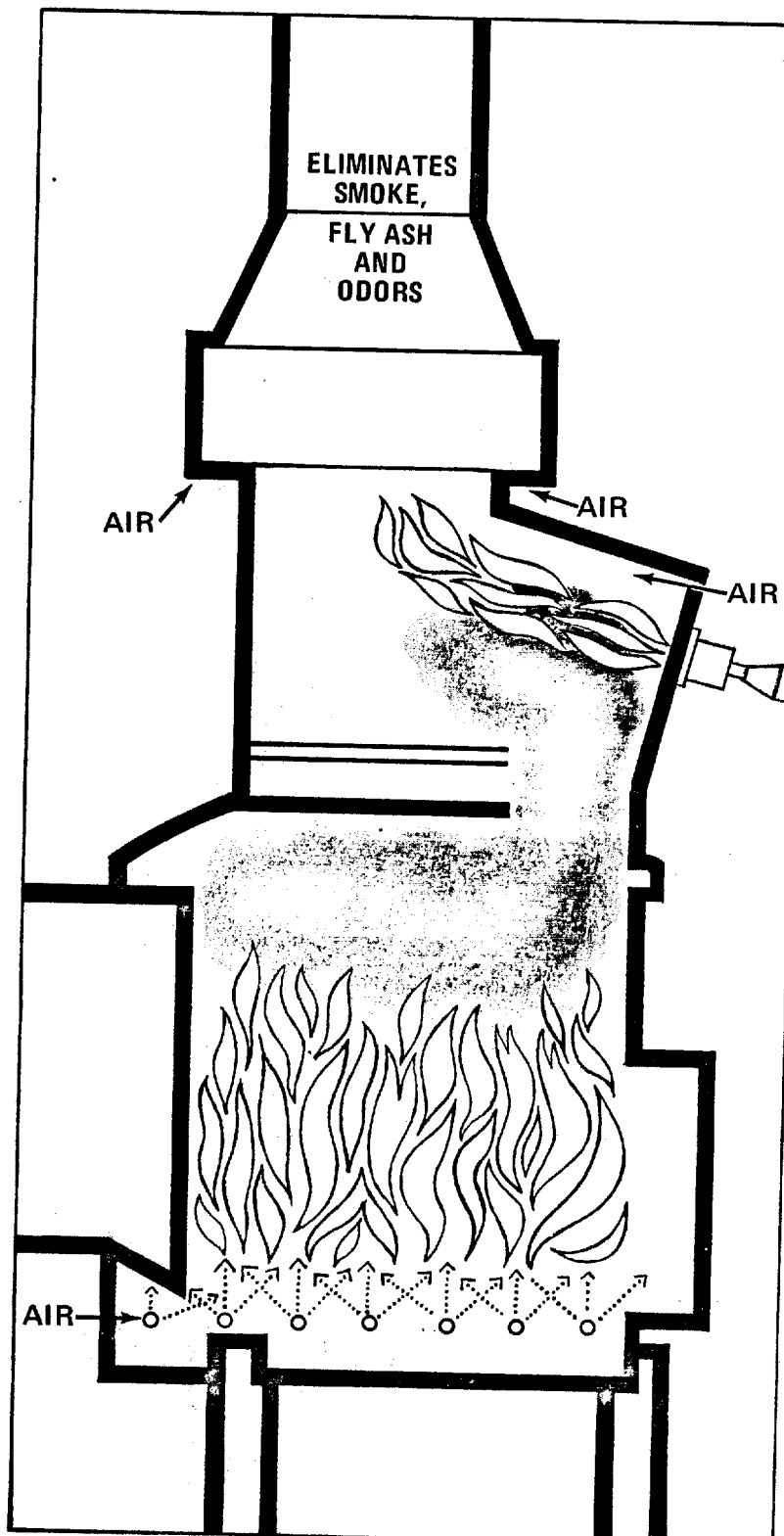
Results of Recent Test
for N.Y. State Approval.

® Reg. T.M. Waste Combustion Corp. Richmond, Va.

U.S. Patent Nos. 3,403,645, 3,489,109 & 3,570,421
Great Britain Patent No. 1,170,701
Canadian Patent No. 825,436
Other U.S. and Foreign Patents Pending



CONSUMAT[®] UNITS BURN THE WASTE THEN BURN THE SMOKE



Light a cigarette. Hold it vertically and watch the steady stream of smoke. Hold a lighted match over the end of the cigarette. Like magic — no smoke! Try it.

That is the simple principle CONSUMAT[®] engineers used in developing the highly sophisticated line of CONSUMAT[®] units designed and manufactured to burn wide varieties and quantities of waste and maintain precise control of pollutant emissions.

CONSUMAT[®] units operate on the controlled air principle. Waste is only partially burned in the lower chamber. Waste is heated in the lower chamber by controlling introduction of air and therefore controlling the temperature. This results in very low velocities so that ash particles are not entrained and carried to the upper chamber. Only smoke and very small particles pass into the upper chamber.

In the upper chamber the smoke is reheated and additional air introduced so that the very fine and hot smoke particles are oxidized rapidly to produce essentially harmless carbon dioxide and water vapor.

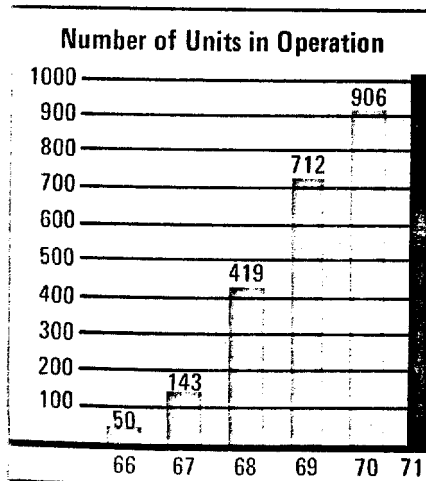
After this reaction additional air is introduced through the upper air inductor to reduce the temperature of stack gases before they exit into the atmosphere.

CONSUMAT® installations cover a broad range of business and industrial applications.

CONSUMAT® units are busy now consuming waste in 33 states and many foreign countries. . . and ready to tackle the mountains of waste in more. CONSUMAT® units are recovering silver and copper. . . destroying secret documents. . . and keeping parks clean. They are ridding restaurants of flies, bugs and rodents. . . eliminating health-hazard waste at its source in hospitals. . . and gobbling up red tape. CONSUMAT® units are consuming excess worthless waste wherever it is made.

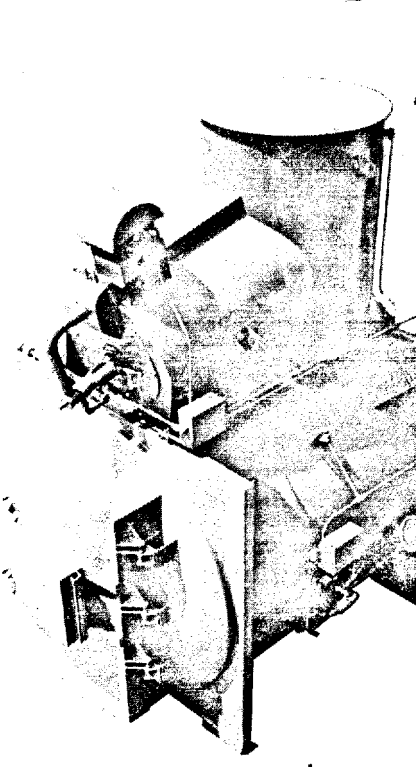
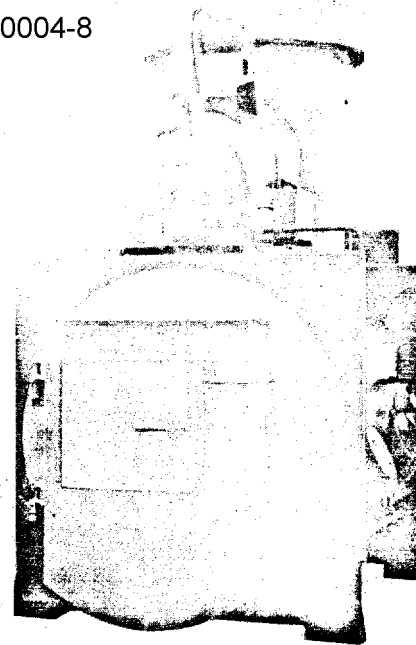
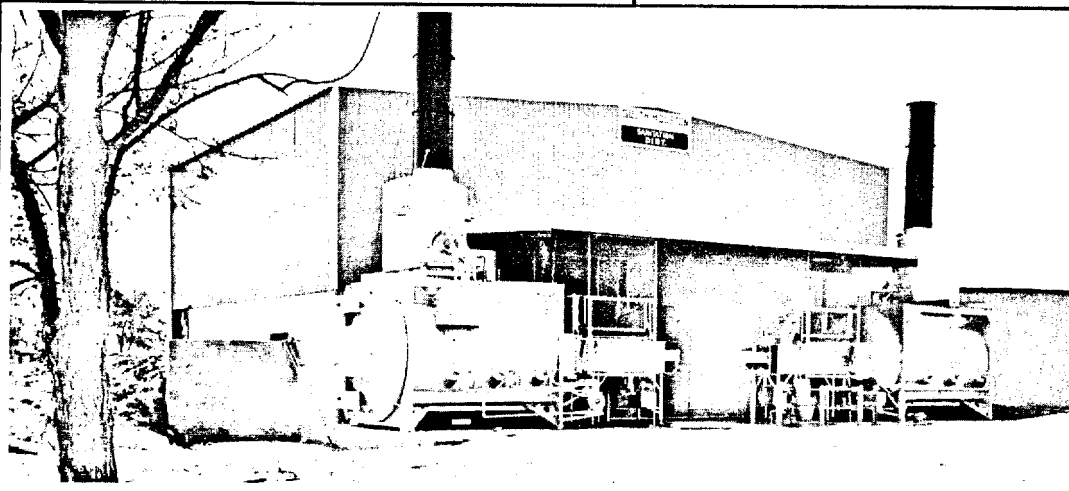
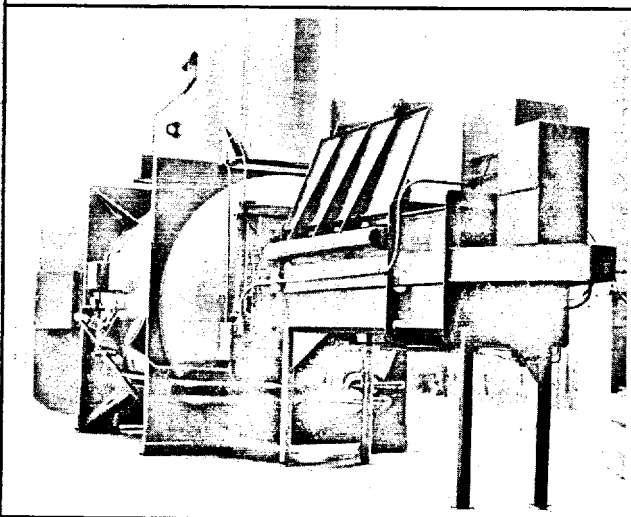
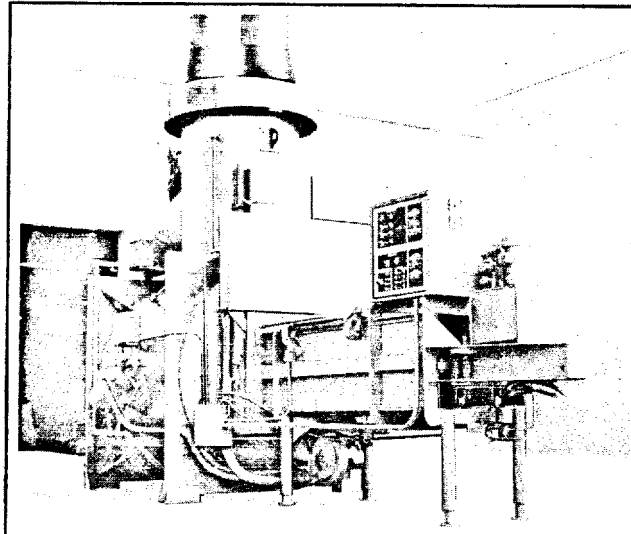
CONSUMAT® installations have been made in the following markets:

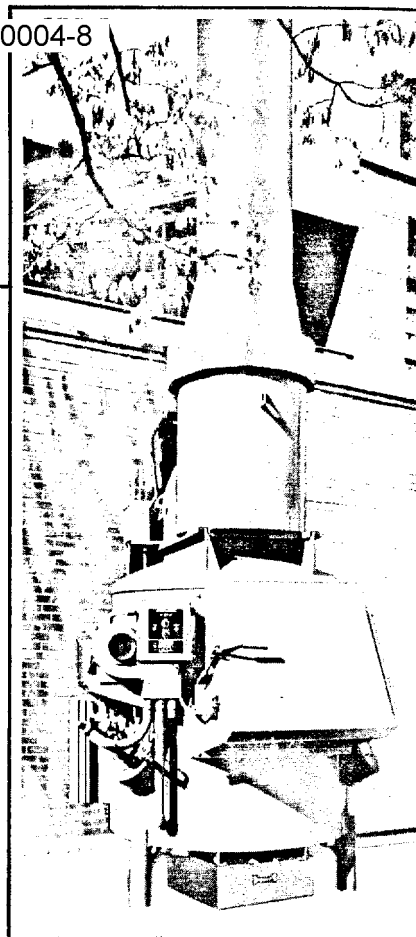
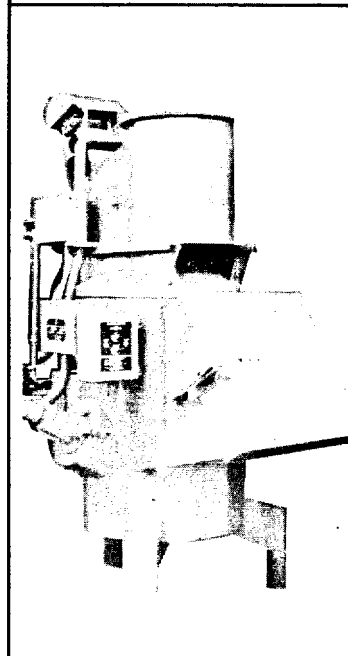
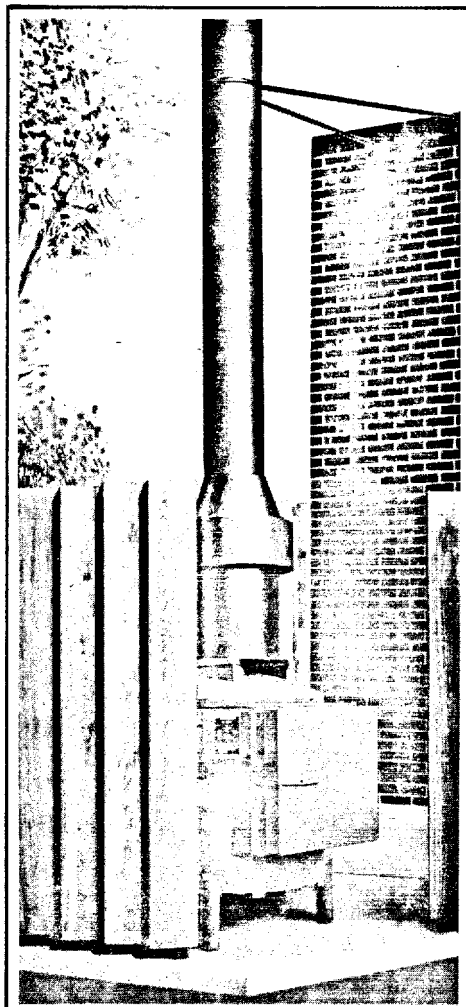
Industrial Plants • Warehouses • Supermarkets • Restaurants • Drive-In Restaurants • Food Processors • Clubs • Hotels and Motels • Schools and Colleges • Hospitals and Nursing Homes • Automobile Dealers • Highway Rest Areas • Photo Centers • Veterinary Hospitals • Furniture Companies • Gas Companies • Race Tracks • Research Centers • Office Buildings • Banks • Apartment Buildings • Government Installations.



Custom designed installations for complex waste disposal problems.

In the municipal installation shown (right) two CONSUMAT® units burn the sludge from the city sewage system in addition to compactor truck discharge.



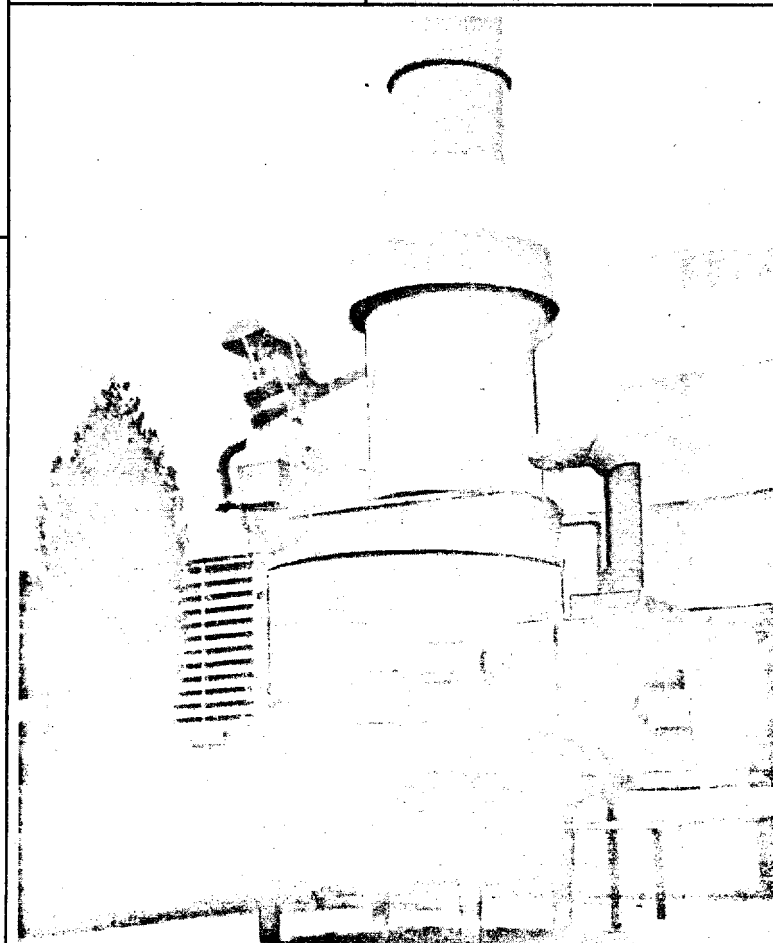


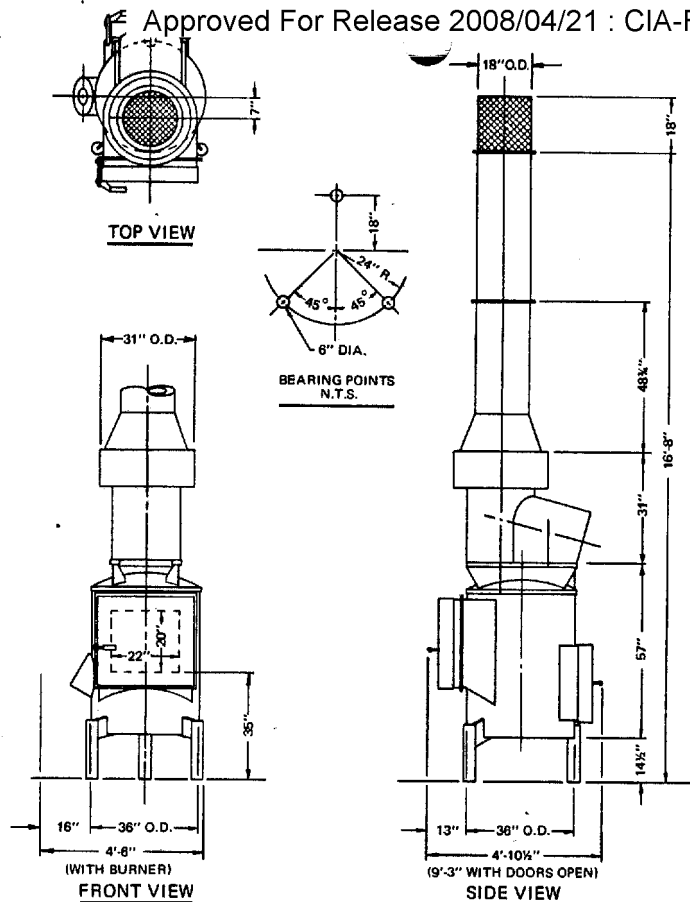
CONSUMAT® units are available in 8 standard factory-packaged units designed to solve your specific waste disposal problem.

Working shoulder-to-shoulder with plant engineers, CONSUMAT® application engineers have met and solved a thousand tough individual problems of waste disposal. Result — the industry's widest range of efficient, economical and precision-made waste disposal workhorses:

- Small, simple housekeeping units to keep a restaurant or drive-in appetizingly clean.
- Intermediate size units to cope with the endless waste by-products clogging industries.
- Sophisticated larger units to solve the challenging, complex problems of total systems of collecting, conveying and disposing of unlimited varieties and quantities of waste.

A survey will pin-point your needs. Chances are there is a CONSUMAT® factory model ready to be delivered, wired and fueled — to eliminate your specific waste disposal headaches at the touch of a switch or the closing of a charging door.



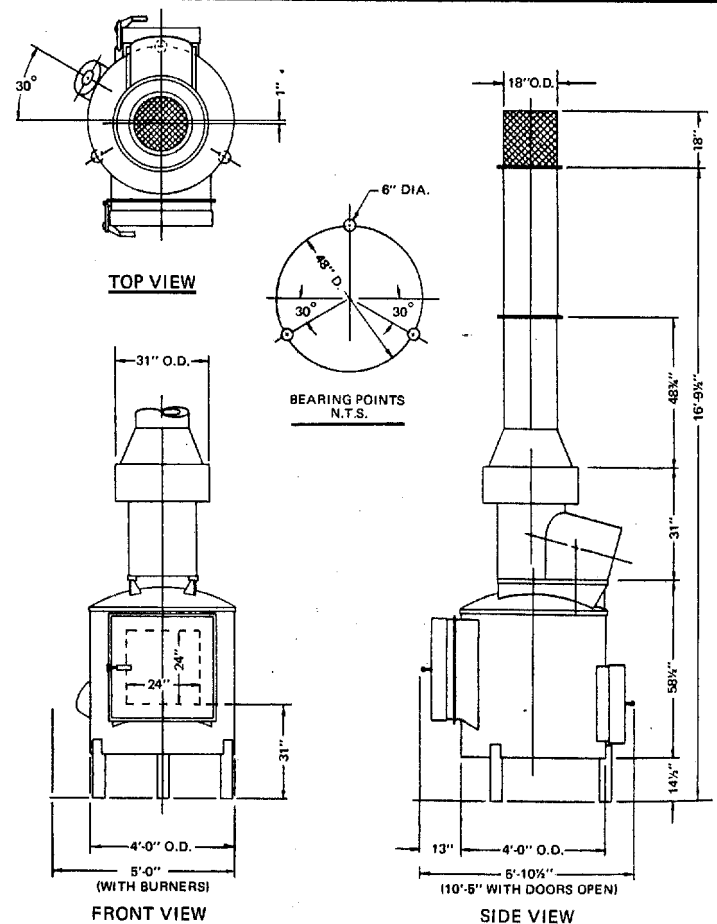


MODEL C-32
 CAPACITY 95 Lbs. Per Hour
 APPROX. WEIGHT 5700 Lbs.
 PRIMARY CHAMBER 12 Gauge H.R. Steel
 Lined with 1" Insulation and 3" Refractory.
 CHARGING DOOR 20" x 22"
 ASH REMOVAL DOOR 16" x 16"
 UPPER CHAMBER 12 Gauge Lined with 1 1/2"
 Insulation and 4 1/2" Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 125,000 BTU/Hr.
 2. Primary Chamber 75,000 BTU/Hr.
 ELECTRICAL SERVICE 110 Volt, Single-
 Phase, 60 Cycle 20 Amp. Start
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation.
 CONTROLS Semi-automatic
OPTIONS
 GAS BURNERS IN FIVE SIZES
 OIL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 TEMPERATURE CONTROLLER
 SLANT CHARGING DOOR
 AIR CURTAIN LOADING EXTENSION
 SLIDING ASH DOOR
 MANUAL LOADING CARTS
 PATHOLOGICAL

MODEL C-32

CAPACITY 130-200 Lbs. Per Hour.
 APPROX. WEIGHT 6600 Lbs.
 PRIMARY CHAMBER 12 Gauge H.R. Steel
 Lined with 1" Insulation and 3" Refractory.
 CHARGING DOOR 24" x 24"
 ASH REMOVAL DOOR 16" x 16"
 UPPER CHAMBER 12 Gauge Lined with
 1 1/2" Insulation and 4 1/2" Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 125,000 BTU/Hr.
 2. Primary Chamber 75,000 BTU/Hr.
 ELECTRICAL SERVICE 110 Volt, Single-
 Phase, 60 Cycle 20 Amp. Start.
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation.
 CONTROLS Semi-automatic

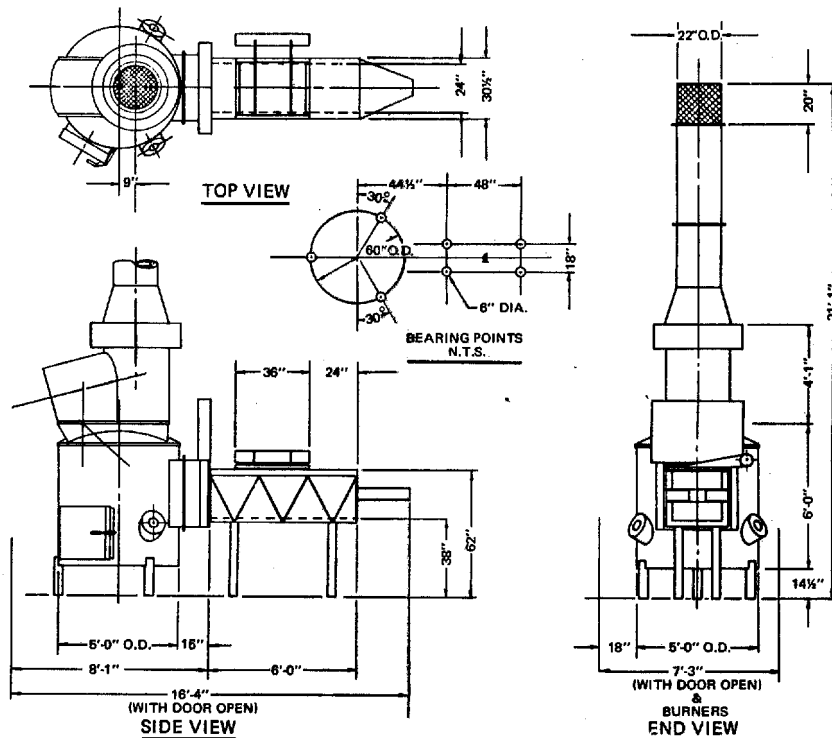
OPTIONS
 GAS BURNERS IN FIVE SIZES
 OIL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 TEMPERATURE CONTROLLER
 SLANT CHARGING DOOR
 AIR CURTAIN LOADING EXTENSION
 SLIDING ASH DOOR
 MANUAL LOADING CARTS
 PATHOLOGICAL



CAPACITY 250-360 Lbs. Per Hour
 APPROX. WEIGHT 11,000 Lbs.
 PRIMARY CHAMBER 12 Gauge H.R. Steel
 Lined with 1" Insulation and 3" Refractory.
 CHARGING DOOR 24" x 24"
 ASH REMOVAL DOOR 18" x 18"
 UPPER CHAMBER 12 Gauge Lined with
 1½" Insulation and 4½" Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 200,000 BTU/Hr.
 2. Primary Chamber 125,000 BTU/Hr.
 ELECTRICAL SERVICE 110 Volt, Single-
 Phase, 60 Cycle, 30 Amp. Start.
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation.
 CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN FIVE SIZES
 OIL BURNERS
 ADDITIONAL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 TEMPERATURE CONTROLLER
 SLANT CHARGING DOOR
 AIR CURTAIN LOADING EXTENSION
 SLIDING ASH DOOR
 ADJUSTABLE LOADING CART
 MECHANICAL LOADER
 PATHOLOGICAL

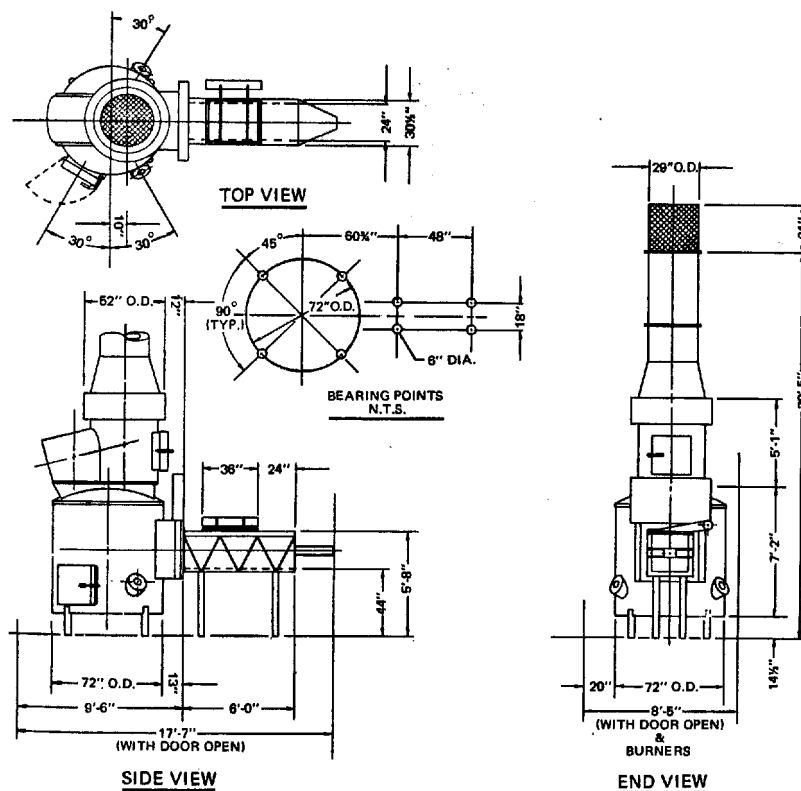


MODEL C-120

CAPACITY 435-560 Lbs. Per Hour.
 APPROX. WEIGHT 16,000 Lbs.
 PRIMARY CHAMBER 12 Gauge H.R. Steel Lined
 with 1½" Insulation and 3½" Refractory.
 CHARGING DOOR 24" x 24"
 ASH REMOVAL DOOR 18" x 18"
 UPPER CHAMBER 12 Gauge Lined with
 1½" Insulation and 4½" Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 350,000 BTU/Hr.
 2. Primary Chamber 125,000 BTU/Hr.
 ELECTRICAL SERVICE 110 Volt, Single-
 Phase, 60 Cycle, 30 Amp. Start.
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation.
 CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN FIVE SIZES
 OIL BURNERS
 ADDITIONAL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 TEMPERATURE CONTROLLER
 SLANT CHARGING DOOR
 AIR CURTAIN LOADING EXTENSION
 SLIDING ASH DOOR
 MECHANICAL LOADER

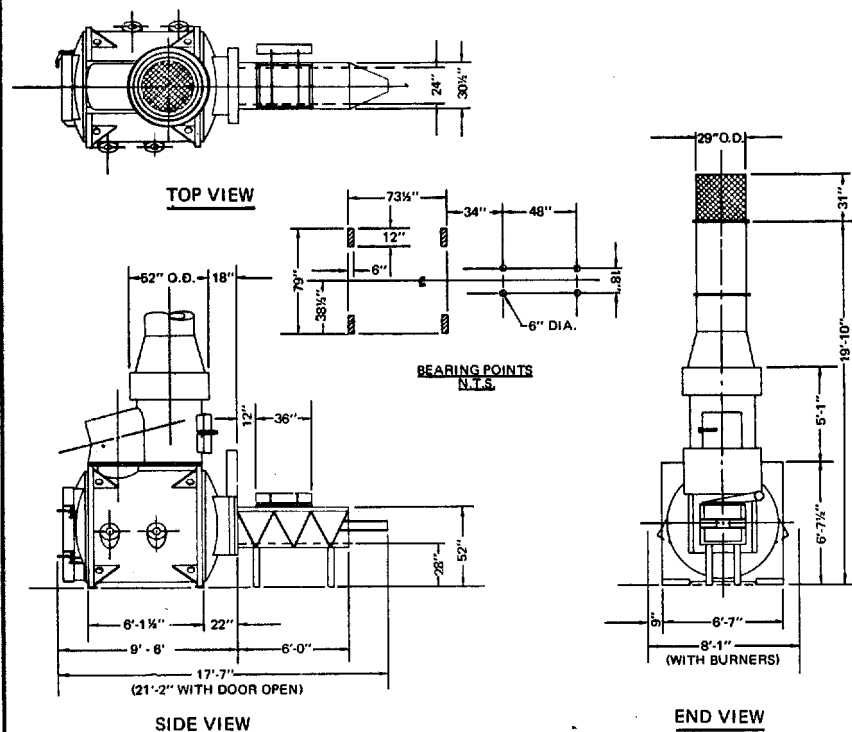


MODEL C 125

CAPACITY 470-680 Lbs. Per Hour
 APPROX. WEIGHT 20,000 Lbs.
 PRIMARY CHAMBER $\frac{1}{4}$ " Thick H.R. Steel
 Lined with 2" Insulation and 5" Refractory.
 ASH REMOVAL DOOR 30" x 48"
 UPPER CHAMBER $\frac{3}{16}$ " H.R. Steel Lined
 with $\frac{1}{2}$ " Insulation and $\frac{1}{2}$ " Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 350,000 BTU/Hr.
 2. Primary Chamber, Two 125,000
 BTU/Hr. Each.
 ELECTRICAL SERVICE 220 Volt, Three
 Phase with Neutral Ground, 60 Cycle, 50 Amp.
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation.
 CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN SIX SIZES
 OIL BURNERS
 ADDITIONAL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 SPECIAL LOADING DOOR
 SELECTION OF STANDARD
 MECHANICAL LOADERS
 SPIRAL CONVEYORS
 SPECIAL LOADERS
 PATHOLOGICAL

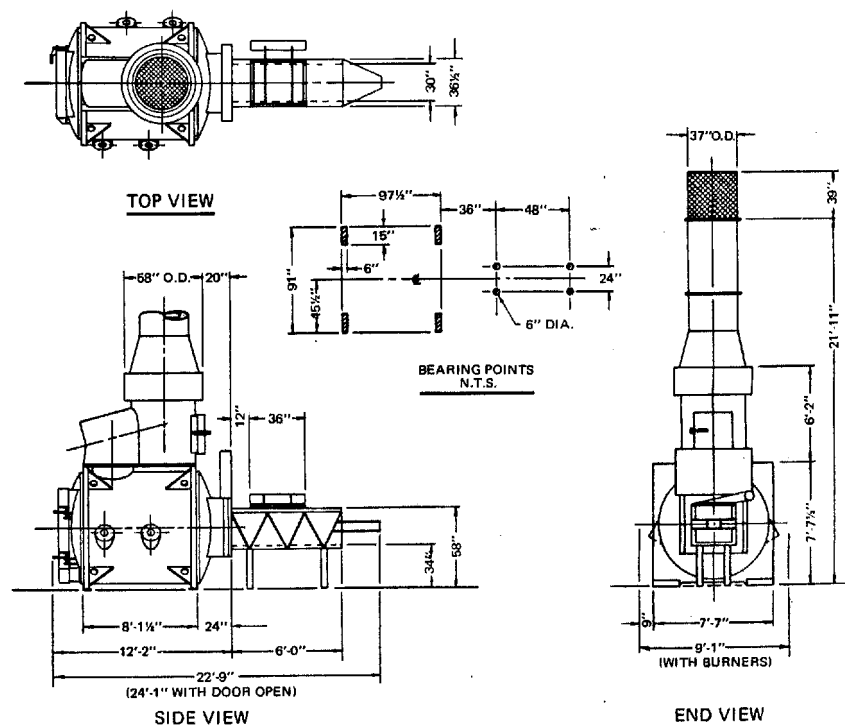


MODEL C-225

CAPACITY 815-1,100 Lbs. Per Hour
 APPROX. WEIGHT 30,000 Lbs.
 PRIMARY CHAMBER $\frac{1}{4}$ " Thick H.R. Steel
 Lined with 2" Insulation and 5" Refractory.
 ASH REMOVAL DOOR 30" x 60"
 UPPER CHAMBER $\frac{3}{16}$ " H.R. Steel Lined
 with $\frac{1}{2}$ " Insulation and $\frac{1}{2}$ " Refractory.
 STACK Refractory Lined
 SPARK ARRESTOR
 BURNERS
 1. Upper Chamber 350,000 BTU/Hr.
 2. Primary Chamber Two, 125,000 BTU/Hr.
 Each.
 ELECTRICAL SERVICE 220 Volt, Three
 Phase with Neutral Ground, 60 Cycle, 50 Amp.
 GAS SERVICE REQUIRED AT BURNER
 6" W.C., Natural; 11" W.C. L.P. During
 Burner Operation
 CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN SIX SIZES
 OIL BURNERS
 ADDITIONAL BURNERS
 HONEYWELL PROTECTORELAY AND
 FLAME ROD
 AUTOMATIC CONTROLS
 SPECIAL LOADING DOOR
 SELECTION OF STANDARD
 MECHANICAL LOADERS
 SPIRAL CONVEYORS
 SPECIAL LOADERS
 PATHOLOGICAL



MODEL C-325

Approved For Release 2008/04/21 : CIA-RDP86-00244R000300390004-8

CAPACITY 1,100-1,600 Lbs. Per Hour
APPROX. WEIGHT 40,000 Lbs.
PRIMARY CHAMBER 1/4" Thick H.R. Steel
Lined with 2" Insulation and
5" Refractory.

ASH REMOVAL DOOR 36" x 72"

UPPER CHAMBER 3/16" H.R. Steel Lined
with 1 1/2" Insulation and 4 1/2" Refractory.

STACK Refractory Lined

SPARK ARRESTOR

BURNERS

1. Upper Chamber 500,000 BTU/Hr.
2. Primary Chamber, Two 200,000 BTU/Hr. Each.

ELECTRICAL SERVICE 220 Volt, Three
Phase with Neutral Ground, 60 Cycle, 50 Amp.

GAS SERVICE REQUIRED AT BURNER
6" W.C., Natural; 11" W.C. L.P. During
Burner Operation.

CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN SIX SIZES

OIL BURNERS

ADDITIONAL BURNERS

HONEYWELL PROTECTORELAY AND
FLAME ROD

AUTOMATIC CONTROLS

SPECIAL LOADING DOOR

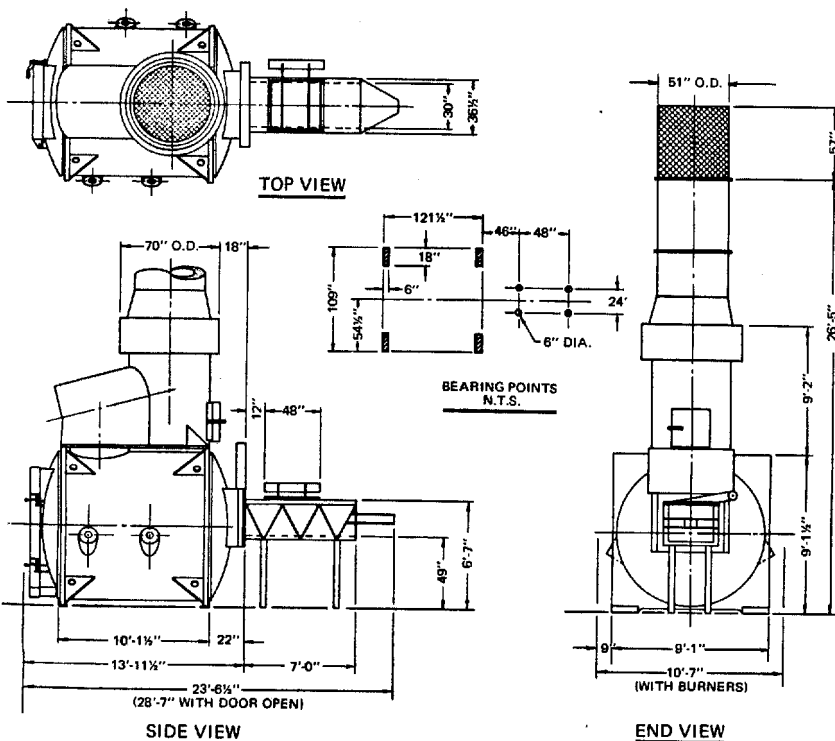
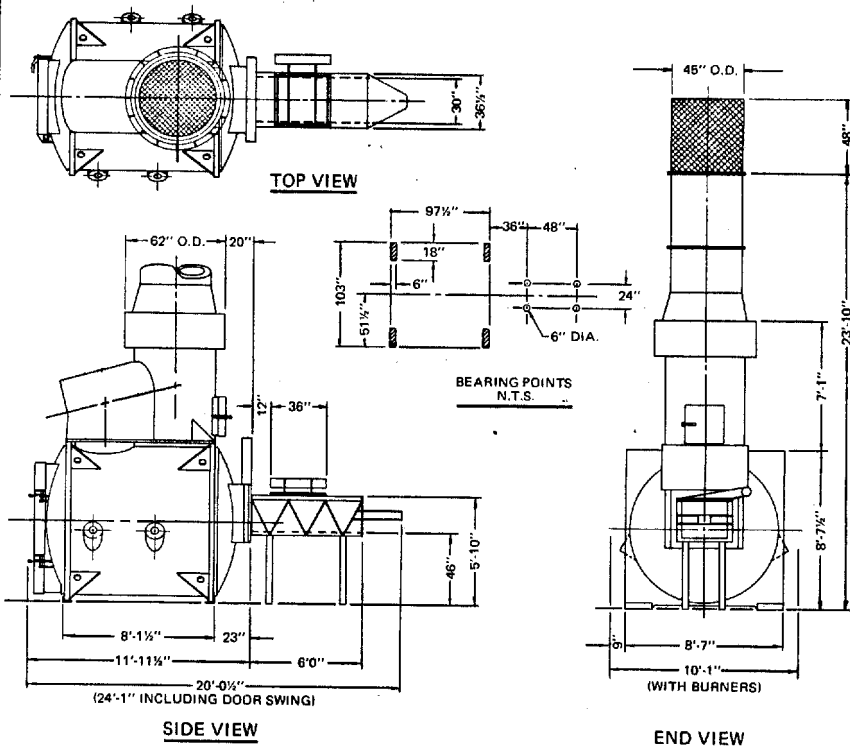
SELECTION OF STANDARD

MECHANICAL LOADERS

SPIRAL CONVEYORS

SPECIAL LOADERS

PATHOLOGICAL



MODEL C-550

CAPACITY 1,520-2,680 Lbs. Per Hour.

APPROX. WEIGHT 55,000 Lbs.

PRIMARY CHAMBER 1/4" Thick H.R. Steel

Lined with 2" Insulation and 5" Refractory.

ASH REMOVAL DOOR 36" x 72"

UPPER CHAMBER 3/16" Thick H.R. Steel Lined
with 1 1/2" Insulation and 4 1/2" Refractory.

STACK Refractory Lined

SPARK ARRESTOR

BURNERS

1. Upper Chamber 1,000,000 BTU/Hr.
2. Primary Chamber Four 125,000 BTU/Hr. Each.

ELECTRICAL SERVICE 220 Volt, Three
Phase with Neutral Ground, 60 Cycle 50 Amp.

GAS SERVICE REQUIRED AT BURNER
6" W.C., Natural; 11" W.C. L.P. During
Burner Operation.

CONTROLS Semi-automatic

OPTIONS

GAS BURNERS IN SIX SIZES

OIL BURNERS

ADDITIONAL BURNERS

HONEYWELL PROTECTORELAY AND
FLAME ROD

AUTOMATIC CONTROLS

SPECIAL LOADING DOOR

SELECTION OF STANDARD

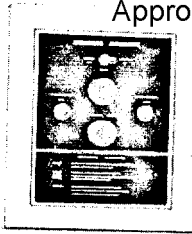
MECHANICAL LOADERS

SPIRAL CONVEYORS

SPECIAL LOADERS

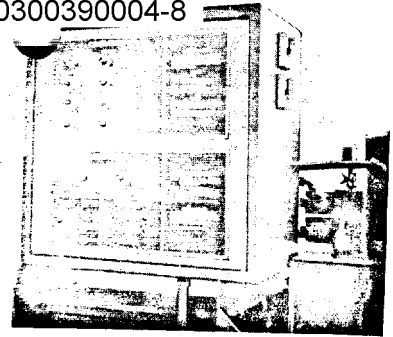
PATHOLOGICAL

Approved For Release 2008/04/21 : CIA-RDP86-00244R000300390004-8



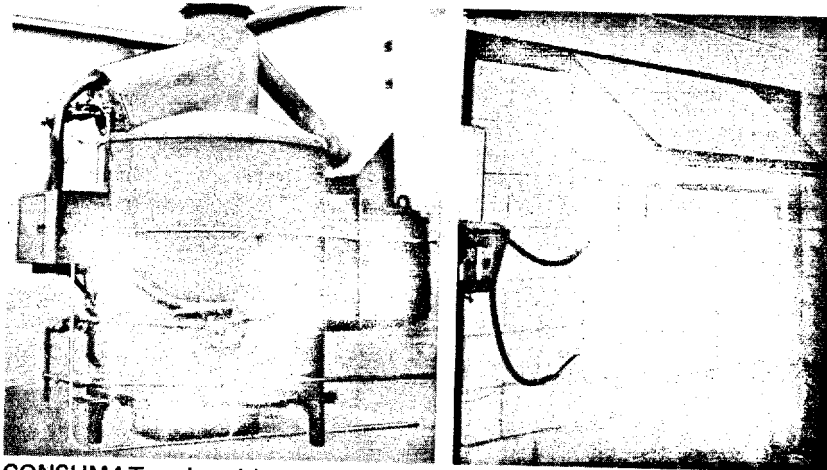
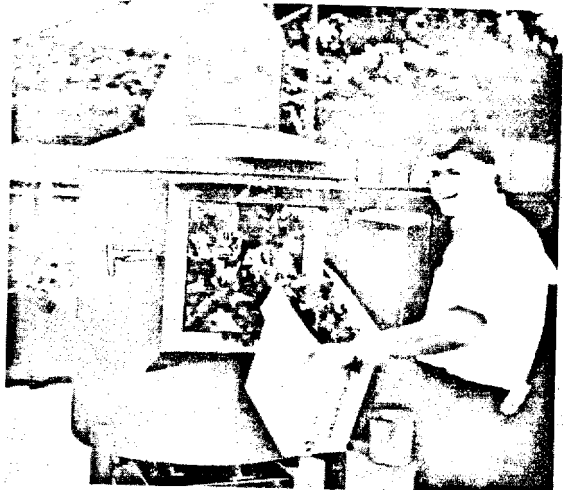
CONSUMAT® units are simple to operate.

No special personnel are needed to operate small equipment. Foolproof push button start and stop controls are pre-set at the factory. Mechanical loader equipment with integrated controls are pre-wired at the factory. These controls have been functionally simplified, are easy to master and can be located in any area for most efficient operation.



Easy and clean to load.

Big loading doors at a convenient height eliminate messy wrestling with waste. Lower burner automatically shuts off for safety while door is open. An auxiliary cart is available that doubles as a handy trash collector and is easily rolled and emptied into the unit. Many different methods of locating units and special options make a CONSUMAT® installation flexible to do any specific job required.

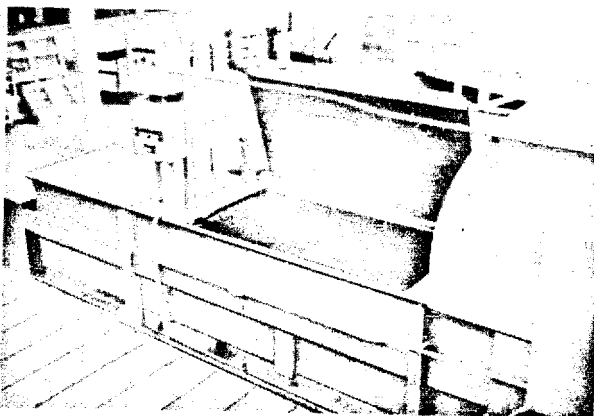


CONSUMAT® units with optional air curtain extensions can be installed through-the-wall for more weather comfort, convenient location to source of waste and to provide protection from pilferage.



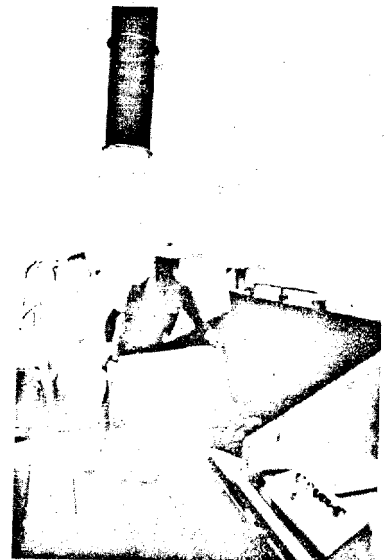
Below-ground-level installation with slant door option for easier loading of heavier waste.

High Volume Loading.



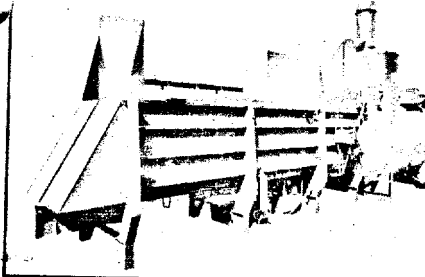
Performance capacity of larger CONSUMAT® units far exceeds hand loading capability. Mechanical loaders feed hefty loads quickly and safely.

Designed for convenience and ease of operation, they are adaptable to many different loading requirements. To save floor space, the mechanical loader can be installed inside with the incinerator outside.

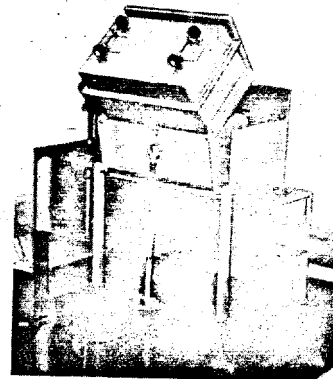
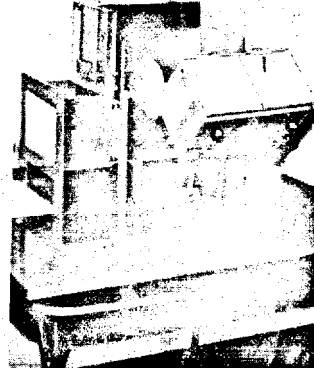
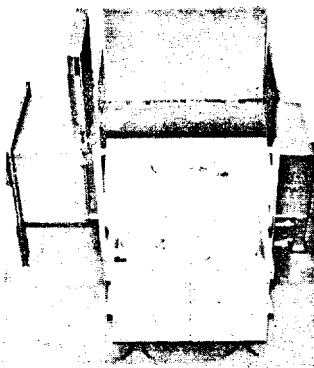
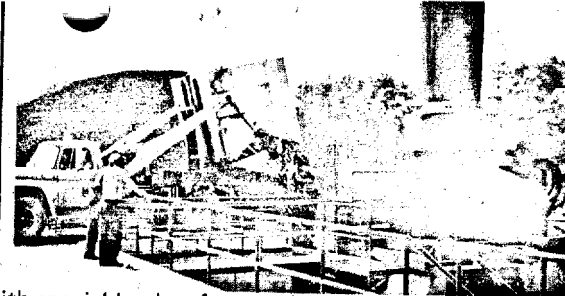




Even a small tractor can't tax the waste-consuming capacity of a CONSUMAT® unit.



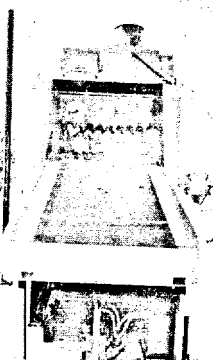
Waste by the truckload is no problem with special loaders for very high volume. Trucks can dump right into the big loading doors with no messy spillovers.



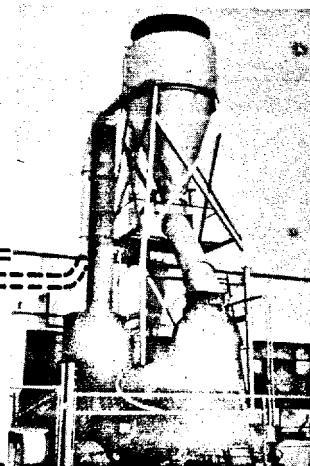
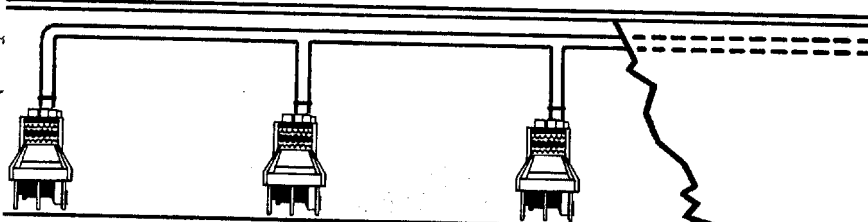
Automatic Loading

Collect trash in easy-roll cart. Wheel it to the loader. Cart attaches to loader and—whisk—cart is automatically lifted and dumped. It's push-button housekeeping at its best!

Remote collection and waste disposal at site.



Here is automatic big-plantkeeping designed to keep the largest industrial plant or institution spotless. Waste material is fed into a shredder. Forced air conveys it through ducts to the air separator which dumps it into the loader. No operator is required and you can install additional stations everywhere you need to get rid of waste.



Liquid Adapter

This optional attachment gives you a big plus advantage. With this newly developed liquid adapter on your CONSUMAT® unit you can burn both solid waste and combustible liquids at the same time.

CONSUMAT® RATING CHART POUNDS PER HOUR BASED ON EIGHT HOUR DAY

Type Waste	C-18	C-32	C-75	C-120	C-125	C-225	C-325	C-550
0*	75	130	250	435	470	850	1230	2065
1*	95	170	320	560	600	1100	1600	2680
2	85	200	360	560	680	1050	1420	1960
3	60	145	290	450	520	815	1110	1520
4**	50	85	175	290	350	588	825	1080
5	Not Recommended				Survey Required			
6	Survey Required				Survey Required			

*Density of the mixture affects the burning rate of Type 0 and Type 1 waste.

**For auxiliary burner requirements see CONSUMAT® Catalogue.
Rating on Model C-125 and larger is based upon use of mechanical feeding device.

TYPE	DESCRIPTION	Moisture Conen	Incom- bustible Solids	B. f. U. Value Lb.	Lbs. Per Cu. Ft.
0	TRASH , a mixture of highly combustible waste; paper, cardboard cartons, wood boxes, and combustible floor sweepings, from commercial and industrial activities. Contains up to 10% by weight of plastic bags, coated paper, laminated paper, treated corrugated cardboard, oily rags and plastic or rubber scraps.	10%	5%	8500	8-10
1	RUBBISH , a mixture of combustible waste; paper, cardboard cartons, wood scrap, foliage and combustible floor sweepings, from domestic, commercial and industrial activities. Contains up to 20% by weight of restaurant or cafeteria waste, but little or no treated papers, plastic or rubber wastes.	25%	10%	6500	8-10
2	REFUSE , consisting of an approximately even mixture of rubbish and garbage by weight, common to apartment and residential occupancy.	60%	7%	4300	15-20
3	GARBAGE , consisting of animal and vegetable wastes from restaurants, cafeterias, hotels, hospitals, markets, and like installations.	70%	5%	2500	30-35
4	HUMAN AND ANIMAL REMAINS , consisting of carcasses, organs and solid organic wastes from hospitals, laboratories, abattoirs, animal pounds, etc.	85%	5%	1000	45-55
5	BY-PRODUCT WASTE/GASEOUS, LIQUID OR SEMI-LIQUID , such as tar, paints, sludge, fumes, etc., from industrial operations.	Varies	Survey Required		
6	SOLID BY-PRODUCT WASTE , such as rubber, plastics, wood waste, etc., from industrial operations.	0	0	Varies by Material	Varies

ESTIMATES FOR INCINERATION REQUIREMENTS

CLASSIFICATION	BUILDING TYPES	QUANTITIES OF WASTE PRODUCED
INDUSTRIAL BUILDINGS	Factories Warehouses	Survey must be made 2 lbs. per sq. ft. per day
COMMERCIAL BUILDINGS	Office Buildings Department Stores Shopping Centers Supermarkets Restaurants Drug Stores Banks	1 lb. per 100 sq. ft. per day 4 lbs. per 100 sq. ft. per day Study of plans or survey required 9 lbs. per 100 sq. ft. per day 2 lbs. per meal per day 5 lbs. per 100 sq. ft. per day Study of plans or survey required
RESIDENTIAL	Private Homes Apartment Buildings	5 lbs. basic & 1 lb. per bedroom 4 lbs. per sleeping room per day
SCHOOLS	Grade Schools High Schools Universities	10 lbs. per room & ½ lb. per pupil per day 8 lbs. per room & ½ lbs. per pupil per day Survey Required
INSTITUTIONS	Hospitals Nurses Homes Homes for Aged Rest Homes	25 lbs. per bed per day 5 lbs. per person per day 5 lbs. per person per day 5 lbs. per person per day
HOTELS, ETC.	Hotels - 1st Class Hotels - Medium Class Motels Trailer Parks	3 lbs. per room and 2 lbs. per meal per day 1½ lbs. per room and 1 lb. per meal per day 2 lbs. per room per day 6 to 10 lbs. per trailer per day
MISCELLANEOUS	Veterinary Hospitals Industrial Plants Municipalities	Study of plans or survey required
ESTIMATE:		7 hours operation per shift for industrial installations. 6 hours operation per day for commercial buildings, institutions & hotels. 4 hours operation per day for schools. 3 hours operation per day for apartment buildings.

SOLD AND SERVICED BY:

AIR POLLUTION CONTROL PRODUCTS, INC.
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(703) 768-0316

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